

### REMARKS

The Applicants sincerely appreciate the thorough examination of the present application as evidenced by the Final Office Action of May 2, 2007. In particular, the Applicants appreciate the Examiner's indication that Claims 4-7 and 12 are allowed and that Claims 10-11, 15, and 18 would be allowable if rewritten in independent form. In response, the Applicants have amended Claim 1 to include all recitations of Claim 10 (indicated allowable); canceled Claim 10; amended Claim 11 to depend from Claim 1; rewritten Claims 9 and 14 in independent form; and amended Claim 16 to include all recitations of Claim 18 (indicated allowable); and canceled Claim 18.

Accordingly, Claims 1-8, 11-13, and 16-17 are in a condition that has been indicated to be allowable. In the following remarks, the Applicants will show that 9 and 14 are patentable over U.S. Patent No. 6,067,051 to *Terk et al.* Because dependent Claim 15 (indicated allowable) depends from Claim 14 which is patentable for the reasons discussed below, dependent Claim 15 has not been rewritten in independent form.

Accordingly, the Applicants respectfully submit that all claims are patentable, and a Notice Of Allowance is respectfully requested in due course. In the alternative, the Applicants request entry of this amendment as narrowing issues for further consideration on appeal. No new issues have been raised because the amendments have been: to amend independent Claims 1 and 16 to include all recitations of respective allowable dependent Claims 10 and 18; to rewrite dependent Claims 9 and 14 in independent form; to cancel Claims 10 and 18; and to amend the dependency of dependent Claim 11.

#### **Claim 9 Is Patentable Over Terk**

Claim 9 has been rejected under 35 U.S.C. Sec. 102(b) as being anticipated by *Terk*. Claim 9, however, is patentable over *Terk* for at least the reasons discussed below. In particular, Claim 9 recites wireless communication device comprising:

- a loop antenna element including,
- a first section provided in and extending a length in a first plane,
- a second section spaced from the first section and provided in and extending a length in the first plane, where the second section extends along the same line as the

first section or has a curvature which is a continuation of the curvature of the first section,

a third continuous section provided in a second plane essentially parallel to the first plane and essentially aligned with the first and second sections wherein a length of the third continuous section is at least as great as combined lengths of the first and second sections, and

a fourth and a fifth section interconnecting antenna sections provided in the first and second planes,

wherein the antenna sections form a three-dimensional structure having a substantial two-dimensional extension in at least one of the first and second planes, wherein a length of the loop antenna element corresponds to a full wavelength of a center frequency in a desired frequency band. (Underline added.)

The Applicants respectfully submit that Terk fails to teach or suggest a length of a loop antenna element corresponding to a full wavelength of a center frequency in a desired frequency band. More particularly, Terk fails to teach or suggest a length of the arms 30a-b defining the UHF/VHF antenna 14, much less a length of the arms defining the UHF/VHF antenna 14 corresponding to a wavelength of a center frequency in a desired frequency band. Moreover, the Office Action does not identify any portions of Terk that provide such teachings.

Accordingly, the Applicants respectfully submit that Claim 9 is patentable over Terk. If Terk should be maintained as a basis for rejecting of Claim 9, the Applicants respectfully request that portions of Terk supporting such a rejection be identified.

#### **Claim 14 Is Patentable Over Terk**

Claim 14 has been rejected under 35 U.S.C. Sec. 102(b) as being anticipated by Terk. Claim 14, however, is patentable over Terk for at least the reasons discussed below. In particular, Claim 14 recites wireless communication device comprising:

a loop antenna element including,

a first section provided in and extending a length in a first plane,

a second section spaced from the first section and provided in and extending a length in the first plane, where the second section extends along the same line as the first section or has a curvature which is a continuation of the curvature of the first section,

a third continuous section provided in a second plane essentially parallel to the first plane and essentially aligned with the first and second sections wherein a length

of the third continuous section is at least as great as combined lengths of the first and second sections, and  
a fourth and a fifth section interconnecting antenna sections provided in the first and second planes,  
wherein the antenna sections form a three-dimensional structure having a substantial two-dimensional extension in at least one of the first and second planes,  
wherein the device is a portable communication device. (Underline added.)

The Applicants respectfully submit that Terk fails to teach or suggest a portable communications device including a loop antenna element as recited in Claim 14. As discussed in Terk:

... the satellite dish antenna 12 is supported upon a base 16, which is in turn adapted to be fixedly secured to a structure, e.g., a residence, where the TV receiver is placed. (Underline added.)

Terk, col. 3, lines 47-50. Moreover:

At least one support 32 is interposed between the dish antenna and the UHF/VHF antenna 14 to wholly support the UHF/VHF antenna 14 upon the satellite dish antenna 12. As described above, the dish antenna 12 is mounted from a structure by the support base 16. (Underline added.)

Terk, col. 4, lines 14-18. In addition, "the UHF/VHF antenna 114 is securely ... mounted on the dish antenna 112...." Terk, col. 5, lines 62-64. Because Terk discusses a UHF/VHF antenna 14/114 that is supported/mounted by/on a satellite dish antenna that is secured to a structure, Terk teaches away from a portable communications device including a loop antenna element as recited in Claim 14. Moreover, the Office Action does not identify any portions of Terk that provide such teachings.


The Applicants thus submit that Claim 14 is patentable over Terk. In addition, dependent Claim 15 is patentable for at least the reasons discussed above with respect to Claim 14 from which it depends. Claim 15 is also separately patentable as indicated on page 3 of the Office Action. If Terk should be maintained as a basis for rejecting of Claim 14, the Applicants respectfully request that portions of Terk supporting such a rejection be identified.

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### CONCLUSION

Accordingly, Applicant submits that the present application is in condition for allowance and the same is earnestly solicited. The Examiner is encourage to telephone the undersigned at 919-854-1400 for resolution of any outstanding issues.

Respectfully submitted,

  
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### CERTIFICATION OF TRANSMISSION

I hereby certify that this correspondence is being transmitted electronically to the U.S. Patent and Trademark Office on June 28, 2007.

  
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